

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/643, 038  
Source: IFWO  
Date Processed by STIC: 03/08/2005

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/643,038

TIME: 07:28:19

Input Set : N:\DA\US10643038.raw

Output Set: N:\CRF4\03032005\J643038.raw

```

1 <110> APPLICANT: C. Frank Bennett
2     Jacqueline Wyatt
3 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHOLIPASE A2, GROUP IIA
(SYNOVIAL) EXPRESSION
4 <130> FILE REFERENCE: RTS-0221
5 <140> CURRENT APPLICATION NUMBER: US/10/643,038
6 <141> CURRENT FILING DATE: 2003-08-18
7 <150> PRIOR APPLICATION NUMBER: US/09/865,866
8 <151> PRIOR FILING DATE: 2001-05-25
9 <160> NUMBER OF SEQ ID NOS: 173
11 <210> SEQ ID NO: 1
12 <211> LENGTH: 20
13 <212> TYPE: DNA
14 <213> ORGANISM: Artificial Sequence
15 <220> FEATURE:
16 <223> OTHER INFORMATION: Antisense Oligonucleotide
17 <400> SEQUENCE: 1
18     tccgtcatcg ctcctcaggg                                20
20 <210> SEQ ID NO: 2
21 <211> LENGTH: 20
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Antisense Oligonucleotide
26 <400> SEQUENCE: 2
27     atgcattctg cccccaagga                                20
29 <210> SEQ ID NO: 3
30 <211> LENGTH: 854
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
33 <220> FEATURE:
34 <221> NAME/KEY: CDS
35 <222> LOCATION: (136)...(570)
36 <400> SEQUENCE: 3
37     gaattcccaa ctctggagtc ctctgagaga gccaccaagg aggagcaggg gagcgacggc      60
38     cggggcgaaa gttgagacca ccagcagag gagctaggcc agtccatctg catttgtcac      120
39     ccaagaactc ttacc atg aag acc ctc cta ctg ttg gca gtg atc atg atc      171
40             Met Lys Thr Leu Leu Leu Leu Ala Val Ile Met Ile
41             1             5             10
42     ttt ggc cta ctg cag gcc cat ggg aat ttg gtg aat ttc cac aga atg      219
43     Phe Gly Leu Leu Gln Ala His Gly Asn Leu Val Asn Phe His Arg Met
44             15             20             25
45     atc aag ttg acg aca gga aag gaa gcc gca ctc agt tat ggc ttc tac      267
46     Ile Lys Leu Thr Thr Gly Lys Glu Ala Ala Leu Ser Tyr Gly Phe Tyr

```

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```

47          30          35          40
48      ggc tgc cac tgt ggc gtg ggt ggc aga gga tcc ccc aag gat gca acg      315
49      Gly Cys His Cys Gly Val Gly Gly Arg Gly Ser Pro Lys Asp Ala Thr
50          45          50          55          60
51      gat cgc tgc tgt gtc act cat gac tgt tgc tac aaa cgt ctg gag aaa      363
52      Asp Arg Cys Cys Val Thr His Asp Cys Cys Tyr Lys Arg Leu Glu Lys
53          65          70          75
54      cgt gga tgt ggc acc aaa ttt ctg agc tac aag ttt agc aac tcg ggg      411
55      Arg Gly Cys Gly Thr Lys Phe Leu Ser Tyr Lys Phe Ser Asn Ser Gly
56          80          85          90
57      agc aga atc acc tgt gca aaa cag gac tcc tgc aga agt caa ctg tgt      459
58      Ser Arg Ile Thr Cys Ala Lys Gln Asp Ser Cys Arg Ser Gln Leu Cys
59          95          100          105
60      gag tgt gat aag gct gct gcc acc tgt ttt gct aga aac aag acg acc      507
61      Glu Cys Asp Lys Ala Ala Ala Thr Cys Phe Ala Arg Asn Lys Thr Thr
62          110          115          120
63      tac aat aaa aag tac cag tac tat tcc aat aaa cac tgc aga ggg agc      555
64      Tyr Asn Lys Lys Tyr Gln Tyr Tyr Ser Asn Lys His Cys Arg Gly Ser
65          125          130          135          140
66      acc cct cgt tgc tga gtccccctctt ccctggaaac cttccaccca gtgctgaatt      610
67      Thr Pro Arg Cys
W--> 68          145
69      tccctctctc ataccctccc tccctaccct aaccaagtgc cttggccatg cagaaagcat      670
70      ccctcaccga tccctagaggc caggcaggag cccttctata cccacccaga atgagacatc      730
71      cagcagattt ccagccttct actgctctcc tccacctcaa ctccgtgctt aaccaaagaa      790
72      gctgtactcc ggggggtctc ttctgaataa agcaattagc aaatcaaaaa aaaaaaagga      850
73      attc      854
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 20
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: PCR Primer
81 <400> SEQUENCE: 4
82      cccatgggaa tttggtgaat      20
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 21
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: PCR Primer
90 <400> SEQUENCE: 5
91      cataactgag tgcggcttcc t      21
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 29
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: PCR Probe

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```

99 <400> SEQUENCE: 6
100      tcctgtcgtc aacttgatca ttctgtgga                29
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 19
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: PCR Primer
108 <400> SEQUENCE: 7
109      gaaggtgaag gtcggagtc                19
111 <210> SEQ ID NO: 8
112 <211> LENGTH: 20
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: PCR Primer
117 <400> SEQUENCE: 8
118      gaagatggtg atgggatttc                20
120 <210> SEQ ID NO: 9
121 <211> LENGTH: 20
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: PCR Probe
126 <400> SEQUENCE: 9
127      caagcttccc gttctcagcc                20
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 778
131 <212> TYPE: DNA
132 <213> ORGANISM: Mus musculus
133 <220> FEATURE:
134 <221> NAME/KEY: CDS
135 <222> LOCATION: (44)...(484)
136 <400> SEQUENCE: 10
137      cggcacgaga gaaaccatac caccatccaa gagagctgac agc atg aag gtc ctc 55
138                                     Met Lys Val Leu
139                                     1
140      ctc ctg cta gca gcc tcg atc atg gcc ttt ggc tca ata cag gtc caa 103
141      Leu Leu Leu Ala Ala Ser Ile Met Ala Phe Gly Ser Ile Gln Val Gln
142      5                10                15                20
143      ggg aac att gcg cag ttt ggg gaa atg att cgg ctt aag aca gga aag 151
144      Gly Asn Ile Ala Gln Phe Gly Glu Met Ile Arg Leu Lys Thr Gly Lys
145      25                30                35
146      aga gct gag ctt agc tat gcc ttc tat gga tgc cac tgt ggc ctg ggt 199
147      Arg Ala Glu Leu Ser Tyr Ala Phe Tyr Gly Cys His Cys Gly Leu Gly
148      40                45                50
149      ggc aaa gga tcc ccc aag gat gcc aca gac cgg tgc tgt gtt act cat 247
150      Gly Lys Gly Ser Pro Lys Asp Ala Thr Asp Arg Cys Cys Val Thr His
151      55                60                65

```

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```

152      gac tgt tgc tac aag agc ctg gag aaa agt gga tgt ggt act aag tta      295
153      Asp Cys Cys Tyr Lys Ser Leu Glu Lys Ser Gly Cys Gly Thr Lys Leu
154          70                      75                      80
155      ctg aaa tac aag tac tcc cac caa ggg ggc caa atc acc tgt tct gca      343
156      Leu Lys Tyr Lys Tyr Ser His Gln Gly Gly Gln Ile Thr Cys Ser Ala
157          85                      90                      95                      100
158      aac cag aac tcc tgt cag aaa cgg ctg tgt cag tgc gat aaa gcc gcc      391
159      Asn Gln Asn Ser Cys Gln Lys Arg Leu Cys Gln Cys Asp Lys Ala Ala
160          105                      110                      115
161      gct gaa tgt ttc gcc cgg aac aag aaa acc tac agt tta aag tac cag      439
162      Ala Glu Cys Phe Ala Arg Asn Lys Lys Thr Tyr Ser Leu Lys Tyr Gln
163          120                      125                      130
164      ttc tac ccc aac atg ttt tgc aaa ggg aag aag ccc aaa tgc tga      484
165      Phe Tyr Pro Asn Met Phe Cys Lys Gly Lys Lys Pro Lys Cys *
166          135                      140                      145
167      aaagagccat ctctgaaac acccgacat gcgcgtctcc catcacacct ctcccagccc      544
168      caccaagttt cccggtgata aaggaaacac ccctctccca ccctagaggc aaggtggggg      604
169      cccttctttc ttcacccagg atgagacaca ggagtcttct gagtcaggct gacctttccc      664
170      caccactcca ctctcttgaa tctgtctact tccacctttc tcttggcatc caacttcctt      724
171      ctctgtacct aagagagtcc tgggaggccc tcacaagtaa agcaattcat caga      778
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 26
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: PCR Primer
179 <400> SEQUENCE: 11
180      ccttgaatct gtctacttcc accttt                                     26
182 <210> SEQ ID NO: 12
183 <211> LENGTH: 19
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: PCR Primer
188 <400> SEQUENCE: 12
189      gggcctccca ggactctct                                           19
191 <210> SEQ ID NO: 13
192 <211> LENGTH: 30
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: PCR Probe
197 <400> SEQUENCE: 13
198      tcttggcatc caacttcctt ctctgtacct                               30
200 <210> SEQ ID NO: 14
201 <211> LENGTH: 20
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:

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```

205 <223> OTHER INFORMATION: PCR Primer
206 <400> SEQUENCE: 14
207     ggcaaattca acggcacagt                                20
209 <210> SEQ ID NO: 15
210 <211> LENGTH: 20
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: PCR Primer
215 <400> SEQUENCE: 15
216     gggctctcgct cctggaagat                                20
218 <210> SEQ ID NO: 16
219 <211> LENGTH: 27
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: PCR Probe
224 <400> SEQUENCE: 16
225     aaggccgaga atgggaagct tgtcatc                        27
227 <210> SEQ ID NO: 17
228 <211> LENGTH: 1080
229 <212> TYPE: DNA
230 <213> ORGANISM: Homo sapiens
231 <220> FEATURE:
232 <400> SEQUENCE: 17
233     gcaaggggct ctaagaattg taagggaaca gatggatgtt cacaagcacc acagccctgg      60
234     ccacatgact ttttaggact ggtatcgtag agtggttact taaggcgggtg gaagctaaat      120
235     tcttagcatg tgctggagag catgaaaaag atatttactt tatgaattaa agctggagtc      180
236     agtgtcagcc cgaagggtgaa ggaaaaagag caacagatcc agggagcatt cacctgcctt      240
237     gtctccaaac aggtgaggat ggggaataaa gtgaagggca gtgctttggt gggaacttca      300
238     aggatacgct ctggcttttt ccagggttag aagctcatat gagacagggg tggaggaaaa      360
239     gaagaaaagaa gaataagaag agaaaagtga ggccctggcc caagttagtg ggaaggaaat      420
240     ccacccattt aaactctctc cctgtggact tgggtcacac gtgaggcctg cacagtgtctg      480
241     gaacatggta gagggcccagg acatacttcc tgtgaatgaa tgattgagcg gctgaatgaa      540
242     tgagtaccgc taaaagccct cttttctatt cccaaatgcc acattgagca gaaggaggca      600
243     gagatccttg ctcagcaatt ggtagtccca tttgggtgtg caaatgagtc cacagcctgc      660
244     aacagcagac agtctctgcc ccccttagag gcgattgcag ggagggtggct gaccgttgat      720
245     cacaccaga ggctggttat gggaatttac tccatggaaa gactcggcaa aactgcctga      780
246     atgtgttttg gcatcaggct actgacacgt aagggtttcc caatcctcaa ctctgtcctg      840
247     gccaggctga tgagggggaag gaaaaggatt acctaggggt atgggcgacc aatcctgagt      900
248     ccaccaactg accacgcccc tccccagcct tgtgcctcac ctacccccc cctccagagg      960
249     gagcagctat ttaaggggag caggagtgcg gaacaaacaa gacggcctgg ggatacaact     1020
250     ctggagtcct ctgagaggta aagagccagc gaagctgatg tcctgtcaag agcagaattc     1080
252 <210> SEQ ID NO: 18
253 <211> LENGTH: 3830
254 <212> TYPE: DNA
255 <213> ORGANISM: Homo sapiens
256 <220> FEATURE:
257 <221> NAME/KEY: CDS

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 03/08/2005  
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3

## VERIFICATION SUMMARY

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Input Set : N:\DA\US10643038.raw

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L:68 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3

L:350 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 18

L:1137 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 97